

MAR 17 2010

Application No. 10/565715
Responsive to the office action dated November 24, 2009

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-22. (Cancelled)

23. (Currently Amended) A capacitor comprising:
a positive electrode of a valve metal,
a dielectric of an anodized film formed on said valve metal, and
a negative electrode ~~including~~ comprising a composite material in contact with
said anodized film,
wherein said composite material ~~includes~~ comprises a conductive polymer and an
ionic liquid capable of repairing a defect in said anodized.

24. (Currently Amended) The capacitor according to claim 23, wherein said
conductive polymer ~~includes~~ comprises at least one selected from the group consisting of
polypyrrole, polyaniline, polythiophene, and derivatives thereof.

25. (Currently Amended) The capacitor according to claim 23, wherein said negative
electrode further ~~includes~~ comprises a metallic part in contact with said composite
material.

26. (Currently Amended) A method of forming the capacitor of claim 23 comprising
the steps of:
preparing a mixture including said ionic liquid and at least one kind of monomer,
~~making~~ placing said mixture ~~be in so as to~~ in contact with said anodized film[[,]] and
~~causing polymerization in~~ polymerizing said mixture ~~to so that convert~~ said at
least one kind of monomer converts into said conductive polymer.

Application No. 10/565715
Responsive to the office action dated November 24, 2009

27. (Previously Presented) The method according to claim 26, wherein said ionic liquid having been included in said mixture is remained in said composite material after said polymerization.

28. (Previously Presented) A method of forming the capacitor of claim 23 comprising the steps of:

preparing a layer of said conductive polymer, and
impregnating said layer of said conductive polymer with said ionic liquid.

29. (Currently Amended) A source material kit for forming said composite material to be used in the capacitor of claim 23 comprising[[,]] [[an]]the ionic liquid[[,]] and at least one kind of monomer.

30. (Currently Amended) The source material kit according to claim 29, wherein said monomer is ~~to be used for forming at least one~~ selected from the group consisting of polypyrrole, polyaniline, polythiophene, and derivatives thereof.

31. (Currently Amended) The capacitor according to Claim 23, wherein said valve metal is at least one selected from the group consisting of aluminum, tantalum, niobium, and an alloy thereof.

32. (New) A method of improving a withstand voltage of a capacitor that comprises:
a positive electrode of a valve metal,
a dielectric of an anodized film formed on the valve metal, and
a negative electrode comprising a composite material in contact with the anodized film,
wherein the composite material comprises a conductive polymer and an ionic liquid,
the method comprising a step of:

Application No. 10/565715
Responsive to the office action dated November 24, 2009

repairing a defect of the anodized film formed on the valve material of the positive electrode with the ionic liquid.